

Workstations Application Catalogue  
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## Introduction

This catalogue provides information on the applications that are to the best of our knowledge currently available on our family of workstations - VAXstations and DECstations. For each application, the application producer name, product name, product description, and contact list (United States and/or Europe) are included. The operating environment that each application supports is also noted - VMS/VWS, VMS/DECwindows, Ultrix/VAX, Ultrix/RISC, and Ultrix/ DECwindows.

### o **VMS VAXstation Applications - VMS/VWS and VMS/DECwindows**

Only the VMS VAXstation applications that interface to the VMS windowing systems - VWS (UIS) and DECwindows - are included in this catalogue. The other VMS applications that interface to VTxxx terminals and other applications are available on VAXstations via the VWS and DECwindows VT terminal emulators. The VAX Source Book and SOFTbase™ have information on these applications.

### o **Ultrix/VAX Applications**

Only the Ultrix/VAXstation applications that interface to the Ultrix windowing systems - X10.4 and DECwindows - are included in this catalogue. The other Ultrix applications that interface to VTxxx terminals and other applications are available on VAXstations via the VWS and DECwindows VT terminal emulators. The Ultrix Source Book and SOFTbase™ have information on these applications.

### o **Ultrix/RISC Applications**

All DECstation applications are listed in this catalogue. If the application is also available under Ultrix DECwindows, then it is a Workstation application. If the application is available under Ultrix/RISC but not under Ultrix/DECwindows, then the application is most likely available on both the DECstation and DECsystem family of systems.

### o **VMS and Ultrix generic Applications - VMS/VT, Ultrix/VT and Ultrix Risc/VT** Selected applications that do not have windowing interfaces have also been included where appropriate. These entries (classed as VT) are included where they are a dependency. Examples of this are compilers or databases for DECstations.

This catalogue is divided into three main areas.

- a. A summary of the operating environments that each application is available on.
- b. Product information on each application, divided into market sub-sections so that it is easy to find all the Electrical CAD applications, for example.
- c. An index of the application producer. The table of contents lists the applications by name.

### **Categories used in this catalog**

Application entries are listed by their market category, as shown below. Within these sections, the applications are listed alphabetically, in producer name order.

## Introduction

category	includes
Finance	Financial Trading Other
Office	Electronic Publishing Office Systems
Software Development - CASE	
Software Development - AI	
Software Development - Software Tools	Networks & Communications Tools
Engineering - ECAD	
Engineering - MCAD	
Engineering - AEC	
Engineering - Mapping	
Engineering - Earth Resources	
Engineering - General Engineering	
Manufacturing (CIM)	

Two forms are included at the end of this catalogue so that we can continue to improve the quality of the catalogue. The first form Appendix A is used to inform us of any inaccuracies found in the catalogue or used to make suggestions on how to improve the quality. The second form Appendix B is have applications included in the next update of the catalogue.

Finally, I want to thank the following people in Third Party Engineering Group in International Engineering and System Marketing for their efforts in producing this catalogue.

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Nicholas Williams	

**Steve Hansmire**



## Workstation integration level

This section shows which environment applications are available. Details should be confirmed with individual vendors.

Applications listed by Workstation system usage							
Science/Research	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
ACCESS*CHROM		○					
Allegro Matrix						○	
CENTRUM	○			○			
CHARMm	○						
Chem-X	○	○					
Ctrl-C	○						
DATS	○						
IDL	○			○		○	
ILS	○		○				
Isovu		○		○	○	○	
LAP	○						
Model-C	○						
NIC-COM/IR	○						
P.L.A.C.E.S.	○						
QUANTA	○			○			
RS Series	○						
RS/Discover	○						
RS/EXPLORE	○						
RS/QCA	○						
X-PLOR	○			○			
Finance	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
FIST	○	○		○			
OPTAS		○					
TRADE	○						
VALPEN		○					



# Workstation integration level

Applications listed by Workstation system usage							
Office	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
INSIGNIA SoftPC	<input type="radio"/>			<input type="radio"/>			
Acumen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
CA-DISSPLA	<input type="radio"/>	<input type="radio"/>					
CA-TELLAGRAF	<input type="radio"/>	<input type="radio"/>					
GRAPHOTEXT	<input type="radio"/>						
LE - LISP	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		
PC-Interface					<input type="radio"/>	<input type="radio"/>	
Q-Calc Standard	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		
Quicknet Professional	<input type="radio"/>	<input type="radio"/>					
Tech Illustrator	<input type="radio"/>						
TPS	<input type="radio"/>						
VIEWNET	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
Workstation Publishing Software	<input type="radio"/>						

Applications listed by Workstation system usage							
Software Development - CASE	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
CASE Designer		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
CASE Generator for SQL*Forms		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
CASE*Dictionary		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
CCC			<input type="radio"/>		<input type="radio"/>		<input type="radio"/>
DELPHIA-PROLOG	<input type="radio"/>						
DI-3000 XPM	<input type="radio"/>						
Draw Gold	<input type="radio"/>	<input type="radio"/>					
ECLIPSE	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		
HOOD SF				<input type="radio"/>	<input type="radio"/>		
ORACLE RDBMS	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>	
PCTE	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		
PicSure Gold	<input type="radio"/>						
PicSure Plus	<input type="radio"/>						
PISA	<input type="radio"/>				<input type="radio"/>		
PROMOD	<input type="radio"/>						
PV-WAVE	<input type="radio"/>			<input type="radio"/>			
Saber-C				<input type="radio"/>	<input type="radio"/>		
Software through Pictures	<input type="radio"/>				<input type="radio"/>		<input type="radio"/>
SSADM				<input type="radio"/>	<input type="radio"/>		
Statemate	<input type="radio"/>						
TEAMWORK/ACCESS	<input type="radio"/>						
TEAMWORK/ADA	<input type="radio"/>						
TEAMWORK/IM	<input type="radio"/>						
TEAMWORK/RT	<input type="radio"/>						
TEAMWORK/SA	<input type="radio"/>						
TEAMWORK/SD	<input type="radio"/>						
Virtual Software Factory				<input type="radio"/>	<input type="radio"/>		

# Workstation integration level

Applications listed by Workstation system usage							
Software Development - AI	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
ACE	<input type="radio"/>	<input type="radio"/>					
Allegro CL						<input type="radio"/>	<input type="radio"/>
Allegro Common Windows						<input type="radio"/>	
CEWB				<input type="radio"/>			
Epitool	<input type="radio"/>						
IBUKI Common LISP		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MYLOG	<input type="radio"/>						
Natural Language		<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	
NEXPERT OBJECT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poplog	<input type="radio"/>				<input type="radio"/>		
STORIA	<input type="radio"/>						
Testbench	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				



## Applications listed by Workstation system usage

Software Development - Software Tools	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
Accelr8 Network Suite					○		○
Allegro Composer						○	
AnimAID	○						
BASE/OPEN UIMS				○			
BLOX/TEMPLATE	○				○		
BSO/C Compiler	○		○		○		
BSO/LSE +	○		○				
BSO/Pascal Compiler	○		○		○		
BSO/Realtime Craft	○		○		○		
CCNMS	○						
Dcl 8					○		○
Edt 8					○		○
FIGARO	○				○	○	
FLEXIm			○		○		○
INGRES		○		○			
Libr8					○		○
Lucid Common Lisp			○		○		○
MAPPS	○		○				
ParaView				○		○	
PLANNER	○		○				
Sequelink			○				
SET	○	○		○	○		
TOPIC			○		○		○
Transl8					○		○
Unipress Emacs	○	○		○			

# Workstation integration level

Applications listed by Workstation system usage							
Engineering - ECAD	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
ABEL PLD Design Software	<input type="radio"/>				<input type="radio"/>		
Allegro	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>			
Cassiope	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>			
EDA	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>			
Framework	<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	
GARDS	<input type="radio"/>		<input type="radio"/>				
HELIX	<input type="radio"/>		<input type="radio"/>				
HSPICE				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
LASAR	<input type="radio"/>						
PLDtest	<input type="radio"/>				<input type="radio"/>		
Princess	<input type="radio"/>		<input type="radio"/>				
SC II	<input type="radio"/>		<input type="radio"/>				
SCICARDS	<input type="radio"/>						
SDS	<input type="radio"/>		<input type="radio"/>				
SPCB	<input type="radio"/>						
System HILO	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
TASE					<input type="radio"/>	<input type="radio"/>	
TESTBRIDGE	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>			
UDRC	<input type="radio"/>		<input type="radio"/>				
Vanguard Circuit Simulator	<input type="radio"/>						
Vanguard Document Editor	<input type="radio"/>						
Vanguard Graphics Framework	<input type="radio"/>						
Vanguard PCB Design System	<input type="radio"/>						
Vanguard Schematic Design System	<input type="radio"/>						
VISULA PLUS	<input type="radio"/>						

## Applications listed by Workstation system usage

Engineering - MCAD	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
ABAQUS	<input type="radio"/>						
ADAMS	<input type="radio"/>				<input type="radio"/>		
ANVIL-5000	<input type="radio"/>					<input type="radio"/>	
AutoCAD	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	
BOXER	<input type="radio"/>						
BRAVO3	<input type="radio"/>	<input type="radio"/>					
DOGS	<input type="radio"/>						
EUCLID	<input type="radio"/>						
FERRET	<input type="radio"/>						
Frame Analysis	<input type="radio"/>						
GeoDraw	<input type="radio"/>						
GEOMOD	<input type="radio"/>						
GTSTRUDL	<input type="radio"/>						
I-DEAS Graphical Numerical Control	<input type="radio"/>						
I-DEAS Material Data System	<input type="radio"/>						
I-DEAS Mold Filling Analysis	<input type="radio"/>						
Mechanism Design	<input type="radio"/>						
Optimization	<input type="radio"/>						
PAFEC	<input type="radio"/>						
PATRAN System	<input type="radio"/>						
PIGS	<input type="radio"/>						
Pro/ENGINEER		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		
Pro/ENGINEER	<input type="radio"/>						
Series 7000	<input type="radio"/>						
STEERBEAR	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>		
SUPERTAB	<input type="radio"/>						
SURFER	<input type="radio"/>						
Systan	<input type="radio"/>						
Tdas	<input type="radio"/>						
The Cambridge System	<input type="radio"/>						

Engineering - AEC	VMS			Ultrix		Ultrix RISC	
	VWS	DW	VT	DW	VT	DW	VT
EIS	<input type="radio"/>		<input type="radio"/>				
PASCE	<input type="radio"/>		<input type="radio"/>				
PDMS	<input type="radio"/>						
PEGS	<input type="radio"/>						
Series 5000	<input type="radio"/>						



## Science/Research

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**Apoloco Systems Ltd**

**P.L.A.C.E.S.™**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

P.L.A.C.E.S., a pathology, lexicon, acquisition, correlation, and evaluation system, provides a flexible mechanism for the direct entry of pathological data to a computer system and produces reports required by regulatory authorities in pre-clinical safety evaluation studies. The system treats the recording and reporting aspects of pathology as two separate activities. During the recording process, a flexible menu selection scheme allows pathologists to record exactly what they wish. The reporting sequence then allows pathologists to rationalize findings in an iterative fashion, producing incidence tables with no transcription and with a full audit trail of the operations performed.

™ P.L.A.C.E.S. is a TradeMark of Apoloco Systems Ltd

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**BBN Software Products Corporation**

**RS Series®**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

The RS Series is a powerful, easy-to-use, data-analysis system for applications ranging from research and development to manufacturing and process analysis. It includes RS/1 (R) - an integrated data analysis package that provides the capability for data management, data manipulation, advanced statistical data analysis, statistical modeling, and flexible graphical display of data and analysis results. A built-in, high level programming language, RPL, allows development of custom analysis procedures and allows customers to build solutions for their specific needs. RS/1 is a registered trademark of BBN Software Products Corporation

® RS/1 and RS Series is a Registered TradeMark of BBN Software Products Corporation

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**BBN Software Products Corporation**

**RS/Discover™**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

RS/DISCOVER helps users plan, execute and analyze experiments to improve manufacturing processes. The system advises users on defining experimental conditions, generating an appropriate experimental design, determining the data to be collected and performing a complete analysis and interpretation of the results.

™ RS/Discover is a TradeMark of BBN Software Products Corporation

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**BBN Software Products Corporation****RS/EXPLORE™**

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*Available for:***VMS UIS****PRODUCT DESCRIPTION**

RS/EXPLORE is an advisory system that guides users through a statistic analysis and the interpretation of the results. Its interactive environment utilizes a four stage process of data analysis: data organization, data visualization, selection and application of statistical methods, and presentation and interpretation of the results.

™ RS/EXPLORE is a TradeMark of BBN Software Products Corporation

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**BBN Software Products Corporation****RS/QCA™**

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*Available for:***VMS UIS****PRODUCT DESCRIPTION**

RS/QCA provides a variety of quality control application functions to assist engineers and managers in the detailed analysis and improvement of manufacturing processes.

™ RS/QCA is a TradeMark of BBN Software Products Corporation

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**Chemical Design Ltd.****Chem-X™**

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*Available for:***VMS UIS  
VMS DECwindows****PRODUCT DESCRIPTION**

Chem-X is a system for computer-aided molecular modeling, with about 300 installations worldwide. It may be used to build and display 3D computer models of virtually any chemical structure, and provides powerful tools for studying a vast range of molecular properties and molecular interactions. Chem-X is used in many different applications, including drug design, protein engineering, polymer modeling, and petrochemical research. Chem-X has been installed by divisions of most of the major multinational chemical companies and many leading academic research centers.

™ Chem-X is a TradeMark of Chemical Design Ltd.

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**Systems Control Technology Inc**

**Ctrl-C™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Ctrl-C is an interactive language for the analysis and design of multivariable control systems, system identification, and signal processing. Functions are included for most classical and modern control design techniques. Systems may be described in state space or transfer function and in continuous or discrete time forms. Transformations between representations are simple and straightforward. A powerful matrix environment provides a workbench for system simulation, signal generation, matrix analysis and graphics.

™ Ctrl-C is a TradeMark of Systems Control Technology Inc

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**Systems Control Technology Inc**

**Model-C™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Model-C is an interactive software package for the modeling and simulation of non-linear dynamic systems. A multi-window graphical user interface incorporates block diagrams and systems that can be drawn using a mouse. The package is designed around Ctrl-C, SCT's interactive matrix-orientated language for multi-variable control system design and analysis, system identification and signal processing. Model-C's equilibration and linearization capabilities combine well with Ctrl-C and the package drastically reduces the time needed to develop and simulate a system model.

™ Model-C is a TradeMark of Systems Control Technology Inc



## Finance

Office

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**Jacquard Systemes**

**GRAPHOTEXT™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Electronic Editor/Desktop Publishing

™ GRAPHOTEXT is a TradeMark of Jacquard Systemes

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**Locus Computing Corp**

**PC-Interface™**

*Available for:*

**Ultrix RISC  
Ultrix VAX**

**PRODUCT DESCRIPTION**

PC-Interface is a local area network (LAN) solution that lets DOS users connect their PC's to an Ultrix host which acts as a file and print server for the networked PCs. PC-Interface offers all the advantages of standard LAN products file and application sharing and remote printer sharing plus the ability to transparently integrate DOS and Ultrix environments. The Ultrix server portion of PC-Interface is available on any Digital system running Ultrix 2.2. PC-Interface is completely transparent to the networked users. The entire Ultrix file system is available to the DOS user. It looks and operates just like a standard DOS hard drive, so the user has no new commands to learn.

™ PC-Interface is a TradeMark of Locus Computing Corp

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**PSDI (UK)LTD**

**Quicknet Professional™**

*Available for:*

**VMS UIS  
VMS DECwindows**

**PRODUCT DESCRIPTION**

Project Management

™ Quicknet Professional is a TradeMark of PSDI (UK)LTD

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**Unipress Software, Inc.**

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**Q-Calc Standard ®***Available for:***VMS UIS  
Ultrix VAX****PRODUCT DESCRIPTION**

Q-Calc Standard is an extremely powerful spreadsheet that is very easy to learn and use through its Lotus 1-2-3 (tm) work-alike menu of commands. Q-Calc Standard has a very large model size and a rich set of commands and operators. The program has evolved and improved since its introduction in 1983 and is in the hands of thousands of users. Q-Calc Standard has been designed specifically for the UNIX operating system, and it takes advantage of pipes and filters, allowing users to interactively supplement Q-Calc Standard's own extensive capabilities with custom programs/scripts of their own.

® Q-Calc Standard is a Registered TradeMark of Unipress Software, Inc.

## Software Development - Software Tools

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**Boston Systems Office, Inc.**

**BSO/C Compiler™**

*Available for:*

**VMS UIS  
Ulrix VAX**

### PRODUCT DESCRIPTION

BSO/C is specifically designed for microprocessor software development. The product offers the microprocessor system designer an extremely powerful optimizing compiler that runs on the VAX and produces code for a number of different microprocessors. It permits fast program creation while easing microprocessor hardware/software interfacing. BSO/C is currently available for the Motorola 6809, 68000, 68010, 68020, 68030 with 68881/68882, Intel 8086, 8088 with 8087, 80186, 80286, Zilog Z80, Z8001, Z8002. Features include extensive optimization, Lint option built into the compiler, language extensions for embedded systems development, ROM/RAM Memory segmentation, interrupt handling routines, and direct control of I/O from the programs.

™ BSO/C Compiler is a TradeMark of Boston Systems Office, Inc.

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**Boston Systems Office, Inc.**

**BSO/LSE+™**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

BSO/LSE+ has been created to provide an integrated environment within which a software developer can edit, compile, assemble, link, debug and review code in one seamless process. BSO/LSE+ is based upon Digital's popular VAX Language Sensitive Editor. BSO/LSE+ helps the user to be more productive. It provides an environment that helps to generate source code quickly and correctly by providing formatted language constructs, together with context specific online help. BSO/LSE+ provides an interface to the BSO supported languages so that a developer can compile and assemble without leaving BSO/LSE+. The BSO compilers and assemblers provide BSO/LSE+ with compilation/assembler diagnostics in a way that allows the user to review errors in one window while examining in another.

™ BSO/LSE+ is a TradeMark of Boston Systems Office, Inc.

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**Boston Systems Office, Inc.**

**BSO/Pascal Compiler™**

*Available for:*

**VMS UIS  
Ulrix VAX**

### PRODUCT DESCRIPTION

This compiler is specifically designed for microprocessor software development. The product offers the microprocessor system designer an extremely powerful optimizing compiler that runs on the VAX and produces code for a number of different microprocessors. It permits fast program creation and the adept handling of specialized microprocessor hardware/software interfacing. BSO/Pascal is currently available for the Motorola 6809, 68000, 68010, 68020, 68030, with 68881/68882, Intel 8086, 8088, 8087, 80186, 80286, Zilog Z80, Z8001, Z8002.

™ BSO/Pascal Compiler is a TradeMark of Boston Systems Office, Inc.



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**Boston Systems Office, Inc.**

**BSO/Realtime Craft™**

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*Available for:*

**VMS UIS  
Ultrix VAX**

**PRODUCT DESCRIPTION**

BSO/Realtime Craft is the smallest and fastest real-time multi-tasking system available on the market today. It is available for the main 16 and 32-bit microprocessors from Intel and Motorola. BSO/Realtime Craft consists of 4 software modules - the eXECutive (XEC), the Input-Output Supervisor (IOS), the File Management System (FMS) and the TRaCer (TRC). BSO/Realtime Craft is easy to use and is integrated with both BSO/C and BSO/Pascal compilers to provide a complete toolset for the developer.

™ BSO/Realtime Craft is a TradeMark of Boston Systems Office, Inc.

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**Boston Systems Office, Inc.**

**PLANNER™**

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*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

PLANNER is a general purpose, hierarchical project management system that makes the job of scheduling and organising tasks and resources into a project much easier and faster. PLANNER can be used by software project designers and managers to schedule and plot all of the tasks and resources necessary to complete a software project. PLANNER uses a hierarchical structure to reflect the structure of a projects organization. It can also be used by non-software people to schedule non software projects. As a planning tool, PLANNER helps to accurately forecast project completion, cost and to optimize resource utilization. PLANNER is extremely easy to use and requires no dedicated staff to support its use. PLANNER can reside on any part of a VAX network.

™ PLANNER is a TradeMark of Boston Systems Office, Inc.

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**FRANZ Inc.**

**Allegro Composer™**

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*Available for:*

**Ultrix RISC**

**PRODUCT DESCRIPTION**

Allegro Composer is an interactive window-based development environment, designed to improve Common LISP programmer productivity. It contains a windowized debugger, inspector and graphical profiler, as well as a status display of processes. These facilities increase programmer efficiency and remove the need for expensive edit-compile-run cycles. Allegro Composer's windowing system saves programming time by allowing simultaneous inspection of several processes. Allegro Composer integrates seamlessly with the developer's system environment. It is built upon industry standards such as X.11 windows, and includes a tightly coupled multiprocessing interface to the Emacs editor.

™ Allegro Composer is a TradeMark of FRANZ Inc.

**Engineering - ECAD**

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**Valid Logic Systems**

**TESTBRIDGE™**

*Available for:*

**VMS UIS  
VMS DECwindows  
Ulrix DECwindows**

**PRODUCT DESCRIPTION**

Valid's TESTBRIDGE family of products links the design environment to the test world. The ties from design to test include a concurrent fault simulator, RAPIDTEST, that reads schematics created with the ValidGEN graphics editor and stimulus data generated from Valid's logic simulator ValidSIM, to generate a complete fault coverage report. An analysis tool, the Design For Accessibility (DFA) Analyzer, which verifies the physical layout of the printed circuit board (PCB) is testable. The TESTBRIDGE family contains a set of design-to-test tools designed to work together to move complex electronic device through design, physical layout, pre-production testing and final volume production testing.

™ TESTBRIDGE is a TradeMark of Valid Logic Systems

## **Engineering - MCAD**



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**Structural Dynamics Research Corporation**

**Frame Analysis™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Frame Analysis allows engineers to perform static, dynamic, limit, and buckling analysis of beam structures.

™ Frame Analysis is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**GeoDraw™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

GeoDraw is an interactive 2D drafting tool for generating fully dimensioned drawings to ANSI and ISO standards for I-DEAS solid models. Features include dynamic on-screen menus, optional user definable on-screen icon based user interface, optional command input, consistent I-DEAS command vocabulary, sentence-like screen prompts, direct entry into global commands, repetitive undo/redo command, and merge programming capability.

™ GeoDraw is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**GEOMOD™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

GEOMOD, for solid modeling, offers a complete geometric design capability. Solid models can be assembled into complete mechanical systems with physical properties that can be investigated for interferences and mass properties or moments of inertia.

™ GEOMOD is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**I-DEAS Graphical Numerical  
Control™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Features include: 2 through 5 axis milling, turning, flame cutting, EDM and Wire

™ I-DEAS Graphical Numerical Control is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**I-DEAS Material Data System** <sup>TM</sup>

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Relational database of non-linear mechanical and thermal properties required for the manufacturing process simulation, based on I-DEAS Pearl. It has a library of General Electric materials available on request, database converters for commercial plastics databases, mold flow, and C-flow. The system allows interactive entry and retrieval properties, graphical display of data, complete flexible units processing, relational operations on data such as search and sort to assist in material selection, historical tracking of material usage, and direct connection to I-DEAS mold filling and mold cooling.

<sup>TM</sup> I-DEAS Material Data System is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**I-DEAS Mold Filling Analysis** <sup>TM</sup>

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

I-DEAS Mold Filling Analysis provides simulation of polymer for thermoplastic materials, modelling for model construction and results overview, and uses I-DEAS Material Data System for complete plastic material properties. It provides a direct link to I-DEAS Mold Cooling for coupled filling and cooling analysis.

<sup>TM</sup> I-DEAS Mold Filling Analysis is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**Mechanism Design** <sup>TM</sup>

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Mechanism Design, used with I-DEAS solid modeling, performs kinematic analysis of closed loop mechanisms. Pin, slider, and ball joints can be created with spring and damper characteristics. Motions can be stored, animated, and checked for interference. Joint loads are calculated and displayed graphically.

<sup>TM</sup> Mechanism Design is a TradeMark of Structural Dynamics Research Corporation



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**Structural Dynamics Research Corporation**

**Optimization <sup>™</sup>**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

The Optimization module allows users to re-design a structure for minimum mass by modifying the finite element properties of shell and beams.

<sup>™</sup> Optimization is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**SUPERTAB <sup>™</sup>**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

SUPERTAB, for engineering analysis, provides interactive finite element modeling including an automatic mesh generator, an online solver for linear statistics and dynamics, and an extensive display of results.

<sup>™</sup> SUPERTAB is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**Systan <sup>™</sup>**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Systan, a system dynamics program allows interactive analysis of the structural dynamic behavior of mechanical systems. Systems are represented as an assemblage of components defined from model test and finite element analysis.

<sup>™</sup> Systan is a TradeMark of Structural Dynamics Research Corporation

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**Structural Dynamics Research Corporation**

**Tdas <sup>™</sup>**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Tdas provides a full range of test data analysis capabilities, including spectral, modal, statistical and fatigue analysis; time history processing; and general mathematical manipulation.

<sup>™</sup> Tdas is a TradeMark of Structural Dynamics Research Corporation



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**Vandix**

**The Cambridge System™**

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*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

The Cambridge System is a combination of three tools for the machine control/manufacturing environment. It includes a design/drafting system, a 3D modeller, and a comprehensive computer aided machining and machine control system. The Cambridge System is incorporated into one unit with equal emphasis on CAM as well as CAD for ease of use, without loss of power.

™ The Cambridge System is a TradeMark of Vandix

## **Engineering - AEC**

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**Auto-trol Technology Corporation**

**Series 5000™**

Available for:

**VMS UIS**

**PRODUCT DESCRIPTION**

SERIES 5000 is the graphics system on which Auto-trol's full range of building design, industrial plant design and facilities management software is built. It can be viewed as a graphics toolkit with modules for particular applications and a comprehensive macro language and can be fully integrated with a relational database.

™ Series 5000 is a TradeMark of Auto-trol Technology Corporation

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**C-E Engineering Automation**

**EIS™**

Available for:

**VMS UIS**

**PRODUCT DESCRIPTION**

EIS is a drawing management system that converts engineering drawings, maps and other documents into digital format for computer aided revision, restoration, and storage and retrieval in a single step. EIS saves time and costs over traditional digitizing methods on CAD systems.

™ EIS is a TradeMark of C-E Engineering Automation

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**C-E Engineering Automation**

**PASCE™**

Available for:

**VMS UIS**

**PRODUCT DESCRIPTION**

PASCE is a state-of-the-art, integrated computer aided engineering system which addresses all phases of plant design including conceptual, detailed design, drawing production, fabrications, construction and plant operations. Equally applicable to the process, power, biochemical and pulp and paper industries, PACE is implemented at many companies including Dow Chemical, Imperial Chemical Industries, Duke Power, 3M Company, Lummus Crest and Ebasco. Retrofit and turnkey projects are currently being designed ranging from small size up to several hundred million dollars.

™ PASCE is a TradeMark of C-E Engineering Automation



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CADCentre Ltd.

PDMS™

Available for:

VMS UIS

**PRODUCT DESCRIPTION**

The Plant Design Management System, PDMS, is designed to allow design engineers to resolve the problems associated with plant design and layout. The essential feature of PDMS is that it provides the user with the ability to create a 3D full size computer model of the complete plant. This approach is the corner stone in the overall PDMS philosophy providing the engineer with a powerful advantage when compared with existing manual techniques.

™ PDMS is a TradeMark of CADCentre Ltd.

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CADCentre Ltd.

PEGS™

Available for:

VMS UIS

**PRODUCT DESCRIPTION**

The Project Engineering Graphics System, PEGS, is an interactive computer graphics system designed to assist with project and contract engineering within oil, gas, petrochemical, pharmaceutical, food processing and other related process industries. PEGS is used to produce 2D schematic type drawings and accepts, stores and reports on process and detailed engineering data related to a project. Typical documents produced within PEGS include process flow sheets (PFS), piping and construction diagrams (P&CD), plot plans and data sheets.

™ PEGS is a TradeMark of CADCentre Ltd.

## Engineering - Mapping

## Engineering - Mapping

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## Engineering - Mapping

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**Laser-Scan Laboratories Ltd**

**Metropolis <sup>TM</sup>**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

Metropolis can carry out a number of vital information gathering and processing functions. Compiling maintenance schedules, accident statistics, drainage records workload planning, site planning, environmental and social services studies, recreation and leisure facilities management and land records. Multiple users from engineers to social service workers can "window in" on a named street, neighbourhood or individual feature; and extract the information they need.

<sup>TM</sup> Metropolis is a TradeMark of Laser-Scan Laboratories Ltd

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**Laser-Scan Laboratories Ltd**

**VTRAK <sup>TM</sup>**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

VTRAK is designed to digitise topographic and other map data quickly and effectively. Map features are captured and stored by the software. These features can then be used extensively in map production and geographical information systems. VTRAK captures map data from a wide variety of sources like digital cameras, sheet-feed, flat-bed or drum scanners. Raster images produced by these scanners can be taken as input to VTRAK which then produces output data in structured vector form suitably coded with attributes. For appropriate maps such as coastlines or contours, VTRAK can run fully automatically, and for more complex data it runs interactively.

<sup>TM</sup> VTRAK is a TradeMark of Laser-Scan Laboratories Ltd

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**McDonnell Douglas Information Systems**

**GDS <sup>TM</sup>**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

GDS is an interactive graphics computer program which provides the production of 2D drawings for the Architectural, Engineering and Construction industry. Specialized additional modules make GDS ideally suited for utilization in the fields of retail, distribution, transportation and digital mapping. GDS receives, stores, manipulates, analyzes and reports data relating to 2D drawings. GDS automatically creates sections, elevations and perspectives.

<sup>TM</sup> GDS is a TradeMark of McDonnell Douglas Information Systems



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**Synercom Technology, Inc.****EMIS™**

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*Available for:***VMS UIS****PRODUCT DESCRIPTION**

EMIS (Environmental Mapping Information System) is an integrated geographic information system for information processing. The EMIS series of program modules can prepare, edit, manipulate, and display geographically based aerial data. The programs create a CDB (Cartographic Data Base) of a geographic region, manipulate and analyze this database and statistical attributes, and display the spatial distribution of the attributes in the region as thematic maps of several varieties. Additional features include 2D and 3D thematic maps, polygon processing, overlay analysis of multiple coverages, and a wide range of analytical functions.

™ EMIS is a TradeMark of Synercom Technology, Inc.

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**Synercom Technology, Inc.****INFORMAP III™**

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*Available for:***VMS UIS****PRODUCT DESCRIPTION**

INFORMAP III is a single-source, mapping database system for the open, distributed environment of the VAXstation based product line and the BI based VAX-series computers. The company offers the software and MicroVAX II based hardware in a self-contained, full-function mapping information management system called the Distributed VAX Centre. INFORMAP III combines a georelational database with the interactive graphics and mapping techniques into a single, integrated software package. In addition, INFORMAP III provides a full function mapping database to each user while protecting the integrity of the data. The software product can operate in the same network with other INFORMAP systems.

™ INFORMAP III is a TradeMark of Synercom Technology, Inc.

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**Zycor, Inc.****B-MAPP™**

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*Available for:***VMS UIS****PRODUCT DESCRIPTION**

B-MAP produces annotated basemaps containing posted shotpoint and well locations, land grid networks, geomorphic and cultural data, lat/long borders, title blocks, bar scales, and direction arrows. Coordinate transformations handle data of different scales and projections. Seismic lines are named and selected shotpoints annotated. B-MAP automatically scales and scissors contours to fit the map border.

™ B-MAPP is a TradeMark of Zycor, Inc.

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Zycor, Inc.

RESIN™

Available for:

VMS UIS

**PRODUCT DESCRIPTION**

RESIN produces initialization matrix data for reservoir simulators from Z-MAP contours. Restarts caused by bad input are virtually eliminated. Through the use of interactive graphics, RESIN constructs simulator grids and computes matrix values from each contour map. The simulator grid, matrix values, and contours of the matrix values can overlay the source map. RESIN lets users edit, spatially change, or combine matrixes to produce other matrix inputs. RESIN keeps track of each set of data prepared for a history match.

™ RESIN is a TradeMark of Zycor, Inc.

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Zycor, Inc.

Z-CAP™

Available for:

VMS UIS

**PRODUCT DESCRIPTION**

Z-MAP digitizes a variety of data, including downhole geologic and petrophysical data, cultural and geomorphic information, seismic sections and shotpoint locations, property boundaries, and contour data, for the energy and mineral industries. Z-CAP uses data from baseplane maps, well log, seismic sections, geologic (general) cross sections, or overlay the source map. Z-CAP can manipulate data to another form and submit it to mapping and modeling programs. The data is consistent with that produced with other Zycor products.

™ Z-CAP is a TradeMark of Zycor, Inc.

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Zycor, Inc.

Z-EDIT™

Available for:

VMS UIS

**PRODUCT DESCRIPTION**

Z-EDIT re-interprets data using interactive graphics. In a windowed area, usually selected from a contour map, Z-EDIT lets users erase and re-draw contours, introduce or modify faults, and add or change data. It then regenerates the grid in the window and contours it on the screen. After changes are complete, the grid window is placed into the original grid. Multiple windows are used to edit separated areas.

™ Z-EDIT is a TradeMark of Zycor, Inc.

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Zycor, Inc.

Z-MAP™

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*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

Z-MAP produces grids and surface displays from geological and geophysical data, including formation tops, zone thicknesses, average porosity, times or velocities. Displays include annotated contour maps, multi-layer cross sections, and 3D perspective views. Combinations of pore (x) thickness or time (x) velocity products are produced by algebraic, logical, and other computations. Contours can be smoothed while maintaining important detail. The volumetric module computes bulk rock volumes or performs detail reservoir volumetric studies by combining geologic and petrophysical surfaces, cutoffs, and properties.

™ Z-MAP is a TradeMark of Zycor, Inc.



## **Engineering - Earth Resources**

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**ECL Petroleum Technologies**

**ECLIPSE™**

Available for:

**VMS UIS  
Ultrix VAX**

**PRODUCT DESCRIPTION**

ECLIPSE is a black oil simulator that numerically simulates multi-dimensional (1, 2, and 3) and multi-phase (1, 2, and 3) flow in a hydrocarbon reservoir. The program solves many classes of black oil reservoir problems, from individual well behavior to large multi-reservoir fields. ECLIPSE features include fully implicit techniques throughout all options, a nested factorization linear solver and fine convergence control criteria, special techniques for rapid non-linear convergence, highly accurate material balances, and a memory management option.

™ ECLIPSE is a TradeMark of ECL Petroleum Technologies

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**ECL Petroleum Technologies**

**GRID™**

Available for:

**VMS UIS  
Ultrix VAX**

**PRODUCT DESCRIPTION**

GRID is an interactive program used to build reservoir models, design simulation grids, and produce input data for reservoir simulators such as ECLIPSE. The basic geological model, consisting of contours, map features, and well locations may be digitised or input directly from map files. The geological model is then used as a background display to aid the construction of the simulation grid. GRID uses ECLIPSE systems software for rapid installation on a wide range of computers and graphics and digitising devices. It is also well suited for use in the workstation environment where full simulation runs are carried out on remote mainframe computer.

™ GRID is a TradeMark of ECL Petroleum Technologies

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**ECL Petroleum Technologies**

**WELTEST™**

Available for:

**VMS UIS  
Ultrix VAX**

**PRODUCT DESCRIPTION**

WELTEST is a flexible, interactive well test interpretation program. ELP menus provide guidance for the inexperienced user and the system features complete user control at all stages of analysis. WELTEST optimises reservoir parameters automatically to give the best match to the data with the selected model. It handles both production and injection tests and uses rate superposition to accommodate any sequence of flows. It models transient interference and pulse tests. It also handles multi-phase cases including gas condensates and volatile oils.

™ WELTEST is a TradeMark of ECL Petroleum Technologies

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Graphics Science

EPOS™

Available for:

VMS DECwindows  
Ultrix VAX  
Ultrix DECwindows

**PRODUCT DESCRIPTION**

EPOS is the concept under which the organization of landbase management or seismic exploration is achieved. EPOS allows for the integration of applications with the aid of GSIS. Users can integrate their own software under EPOS-GSIS. EPOS systems work with and under the control of GSIS. GSIS is an interactive corporate relational, hierarchical database management system designed to handle all geo-scientific information available in a fully networked environment. The data may be resident throughout the network allowing the users quick access to the data they use the most. Data redundancy is controlled, multiple versions are supported. Relational, hierarchical, and freeform data sets can be combined. The retrieval of the data is close to the maximum throughput of the system.

™ EPOS is a TradeMark of Graphics Science

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Scientific Software-Intercomp

INTERPRET II™

Available for:

VMS UIS  
VMS DECwindows

**PRODUCT DESCRIPTION**

INTERPRET II is an interactive, menu-driven, well test interpretation system for use by production engineers. INTERPRET II uses drawdown and buildup data to create and display basic diagnostic plots. These are pressure versus time and derivative of pressure versus time on a log scale. The interpretation model is then developed on the basis of the diagnostic plot. Consistency checks of the interpretation model are made using Horner dimensionless plots and type curve simulation. This ensures that the model accurately reproduces the well pressure measured during the test. Using this interpretation model, INTERPRET II calculates average reservoir pressure, permeability, skin, wellbore storage, fracture length, storativity, interporosity flow coefficients and reservoir size & shape.

™ INTERPRET II is a TradeMark of Scientific Software-Intercomp



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**Scientific Software-Intercomp****LOGCALC-II™**

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*Available for:***VMS UIS  
VMS DECwindows****PRODUCT DESCRIPTION**

LOGCALC-II is a program for investigating and manipulating well log data used by geologists, reservoir engineers and well log analysts in petroleum companies. It performs single-well analyses and complex multi-well field studies. Graphical output includes trace plots, 20 and 300 cross plots histograms and maps. LOGCALC-II analyzes data using standard log analysis techniques. Input data can be correlated and processed so that empirical relationships can be observed. LOGCALC-II reads Schlumberger LIS/CSU, Dresser-Atlas BIT and other industry standard formats.

™ LOGCALC-II is a TradeMark of Scientific Software-Intercomp

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**Scientific Software-Intercomp****SimEase™**

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*Available for:***VMS UIS  
VMS DECwindows****PRODUCT DESCRIPTION**

SimEase is an interactive graphics input and results processor for reservoir simulation. It includes data entry, history matching, predicting, and report writing. SimEase can interactively prepare input data for reservoir simulation, analyze the integrity of input data, format data for input to the simulator, execute the simulator on a workstation or a remote computer, and analyze the simulation results in a variety of forms. Regular and irregular grids can be created on the screen, and grid cell property values can be interpolated automatically. SimEase presents results as three dimensional maps, cross-sections, contour maps and colour shaded maps of saturation pressure and reservoir properties.

™ SimEase is a TradeMark of Scientific Software-Intercomp

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**Scientific Software-Intercomp****TGNET™**

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*Available for:***VMS UIS  
VMS DECwindows****PRODUCT DESCRIPTION**

TGNET is a generalised gas pipeline simulation model that handles transient and steady state simulations. It aids in designing pipeline networks by combining steady state and transient simulation technology in a single mode. By using TGNET to design for average load (steady state analysis) and using linepack to satisfy peak load (transient analysis), pipeline and compressor costs can be minimised. TGNET calculates the effects of operating changes at all points throughout the network. Leak simulation, modeling ruptures, and controlled pipeline blowdowns are included. TGNET generates user specified profile and trend reports for pressure, flow, packing rate and other model variables.

™ TGNET is a TradeMark of Scientific Software-Intercomp

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**Scientific Software-Intercomp**

**WPM™**

*Available for:*

**VMS UIS  
VMS DECwindows**

**PRODUCT DESCRIPTION**

WPM (Well Productivity Model) is an evaluation tool used by production engineers to analyze reservoir performance, the production or injection capacity of proposed or existing wells, the sensitivity of production capacity to operational changes (reservoir simulation, plant pressure change, tubing string change, and artificial lift), and the economics of alternate operating scenarios. WPM features pseudo steady state or transient production forecasting, built in sensitivity analysis, multi-phase flow analysis with heat transfer, and PVT calculations (black oil and compositional). WPM is menu-driven, includes interactive graphics, and interfaces with INTERPRET II(tm).

™ WPM is a TradeMark of Scientific Software-Intercomp

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**Sierra Geophysics, Inc.**

**2DI™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

2DI enables the interpreter to display seismic sections, pick and map subsurface horizons. The goal is to aid the interpreter in mapping drillable prospects, prepare reports, maps and recommendations to management, investors and drilling partners.

™ 2DI is a TradeMark of Sierra Geophysics, Inc.

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**Sierra Geophysics, Inc.**

**MIMIC™**

*Available for:*

**VMS UIS  
Ulrix RISC**

**PRODUCT DESCRIPTION**

MIMIC provides a general mapping and geologic modeling capability for interpretation and seismic modeling activities. MIMIC is designed for simulation, calculation, storage, retrieval, manipulation, and display of geological information with emphasis on depth, quality and travel time. MIMIC supports high quality contour mapping, map editing and model building in three dimensions, plus a major module for interactive building and editing of 2D models. MIMIC offers a generalised coordinate system and choice of units. Display options include cross sections, contour maps, isopach/isotime maps, pinchout maps, and 3D perspective views using elevation lines or contour lines.

™ MIMIC is a TradeMark of Sierra Geophysics, Inc.



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Sierra Geophysics, Inc.

QUIKCDP™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

QUIKCDP, a three dimensional ray-tracing program, is general in terms of seismic-field configuration and types of ray paths. Straight seismic, dogleg, and arbitrarily curved lines and full three dimensional shots are supported. Common Midpoint (CMP) gathered seismic data represents a useful intermediate processing point between raw shoot records and stacked seismic sections. At this point a 3D ray tracing program, QUIKCDP, can show how often the assumptions made in standard processing do not agree with reality. For instance, the concept of common depth point truly applies only to flat layered structures. QUIKCDP clearly shows how a three dimensional structure causes lateral smear of the depth points associated with a CMP gather.

™ QUIKCDP is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

QUIKDIF™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

QUIKDIF calculates 3D fault generated diffractions and applies that information to other QUIK ray tracing packages in order to enhance the accuracy of the synthetic seismograms and in the understanding of seismic data.

™ QUIKDIF is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

QUIKDIG™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

QUIKDIG works with well logs to create input files for QUIKLOG, Sierra's well log analysis and one dimensional package. QUIKDIG is integrated with Sierra's geological modeling program, MIMIC, to digitize contour maps for gridding and to directly create two dimensional geological models from cross sections. QUIKDIG generates group and shootpoint location files for Sierra three dimensional ray-tracing software and also combines information from base maps and seismic sections for automated map posting and computer contouring.

™ QUIKDIG is a TradeMark of Sierra Geophysics, Inc.



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**Sierra Geophysics, Inc.**

**QUIKLOG™**

*Available for:*

**VMS UIS  
Ultrix RISC**

**PRODUCT DESCRIPTION**

QUIKLOG performs well log analysis with emphasis on synthetics and 2D stratigraphic and seismic modeling. QUIKLOG capabilities include log entry, interactive log editing and blocking, and three types of synthetics generation. The first is a pure 1D synthetic displayed in a montage format with log curves and tops annotation. Flexible filters, AGC, and inclusion or exclusion of multiples permit clear correlation between the stratigraphic column in the well and observed surface seismics. QUIKLOG also generates zero-offset synthetic VSP profiles, permitting correlation between the one dimensional seismic response at the well and observed borehole seismics.

™ QUIKLOG is a TradeMark of Sierra Geophysics, Inc.

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**Sierra Geophysics, Inc.**

**QUIKRAY®**

*Available for:*

**VMS UIS  
Ultrix RISC**

**PRODUCT DESCRIPTION**

QUIKRAY directly simulates stacked seismic sections by performing 3D ray-tracing in either normal-incidence mode or image-ray mode for sections before or after time migration. The corresponding ray path plots provide a direct picture of the interaction of seismic rays with the subsurface geology. Most of the arrivals from a three dimensional structure come from out of the plane of the profile.

® QUIKRAY is a Registered TradeMark of Sierra Geophysics, Inc.

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**Sierra Geophysics, Inc.**

**QUIKSHOT™**

*Available for:*

**VMS UIS  
Ultrix RISC**

**PRODUCT DESCRIPTION**

QUIKSHOT does offset or "non-normal" incidence 3D ray-tracing for the simulation of field shot records and it is often used for processing algorithms or parameter verification. Synthetic shot records can be created for both 2D and 3D surveys.

™ QUIKSHOT is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

RAYMAP ®

Available for:

VMS UIS  
Ultrix RISC

#### PRODUCT DESCRIPTION

RAYMAP, an interactive map migration software product, correctly reduces time maps from two dimensional (or other interpretation methods) to depth. RAYMAP handles maps made from either zero-offset or time migrated seismic data and maps made from either two dimensional or three dimensional surveys. Faulted time maps can be migrated directly to depth by first migrating the faults, then the rest of the map, and using the ensemble to create a faulted depth map. Alternatively, individual fault blocks may be migrated separately and melded together in depth.

® RAYMAP is a Registered TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

SierraSEIS ™

Available for:

VMS UIS  
Ultrix RISC

#### PRODUCT DESCRIPTION

SierraSEIS is a 2D batch seismic data processing system. It is divided into a "Basic" system which enables processing to final stack and "Options" of which there are 11 extensions to carry out more sophisticated functions.

™ SierraSEIS is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

SierraSET ™

Available for:

VMS UIS  
Ultrix RISC

#### PRODUCT DESCRIPTION

SierraSET is a library of FORTRAN tools for the development and support of interactive software. The subsystems within the package control input and output of data, display of menus and help functions, graphics and alphanumeric display management and general machine function manipulation.

™ SierraSET is a TradeMark of Sierra Geophysics, Inc.



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Sierra Geophysics, Inc.

SIVA™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

SIVA combines the estimates of depth structure produced by RAYMAP with field seismic data to calculate accurate seismic interval velocities. The velocity maps produced by SIVA can be used for lithologic inference or can be used in conjunction with RAYMAP to produce optimally accurate structural models.

™ SIVA is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

SLIPR™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

SLIPR generates traces in which both the amplitude and phase of the waveform are modelled. For instance, arrivals that have passed through an internal focus are automatically Hilbert transformed. Additional frequency modifications occur when an elastic attenuation along each ray path in the final wave forms is modelled. Arrivals not only broaden as the higher frequency energy is attenuated but significant time shifts are also observed with respect to the perfectly elastic assumption.

™ SLIPR is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

STATIX™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

STATIX performs interactive refraction (first) break picking of shot records in several viewing planes. A detailed surface geologic model is then built either by the ABC or surface consistent decomposition methods. Shot and receiver statics can then be calculated for seismic processing.

™ STATIX is a TradeMark of Sierra Geophysics, Inc.



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Sierra Geophysics, Inc.

STRATLOG™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

STRATLOG focuses on geologic interpretation. Well data are input to generate presentation quality comprehensive composite log displays and cross-sections.

™ STRATLOG is a TradeMark of Sierra Geophysics, Inc.

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Sierra Geophysics, Inc.

VESPA™

Available for:

VMS UIS  
Ultrix RISC

**PRODUCT DESCRIPTION**

VESPA, a wave equation modeling program, computes complete, fully frequency dependent and fully three dimensional synthetic seismograms for horizontally stratified geologies. Synthetic shot records, VSP's and others, can all be generated simultaneously for a specific model. VESPA is valuable for high resolution modeling of the seismic response of stratigraphy defined by a sonic log and for modeling dependence of amplitude and phase on offset. Arrival identification can be tested by including or excluding P-waves, S-waves, multiples and surface waves.

™ VESPA is a TradeMark of Sierra Geophysics, Inc.

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Texas Instruments Industrial Automation Division

Micro S/3 SCADA®

Available for:

VMS UIS

**PRODUCT DESCRIPTION**

The Micro S/3 SCADA system is designed to be used in supervisory process applications that span a wide geographical area. These include refinery operations, offshore/onshore oil production, pipeline monitoring and control, and other applications that require remote data acquisition and control such as security, HVAC, energy management, or state-of-health monitoring. In addition, the Micro S/3 can integrate SCADA with existing systems, process control, and PLCs.

® Micro S/3 SCADA is a Registered TradeMark of Texas Instruments Industrial Automation Division

## **Engineering - General Engineering**

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**Moldflow (Europe) Ltd**

**Moldflow™**

Available for:

**VMS DECwindows**

**PRODUCT DESCRIPTION**

Moldflow now includes an entire range of software analysis programs and development tools for the product design engineer working with injection moulded thermoplastics materials. In addition to our widely used and proven fast algorithm for Finite Element Flow and 3D Boundary Element Cooling Circuit analysis, Moldflow has developed 4 new modules. These new modules extend the amount of information already available to the designer using traditional Moldflow programs. The new line up includes finite difference/finite element flow and holding phase, finite difference/boundary element cooling circuit analysis, shrinkage and warpage analysis, stress and creep analysis, and incorporates file translation facilities.

™ Moldflow is a TradeMark of Moldflow (Europe) Ltd

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**Scomag Ltd**

**VXN™**

Available for:

**VMS UIS**

**PRODUCT DESCRIPTION**

™ VXN is a TradeMark of Scomag Ltd

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**Sherrill-Lubinski**

**SL-GMS™**

Available for:

**VMS UIS  
VMS DECwindows  
Ulrix VAX  
Ulrix DECwindows**

**PRODUCT DESCRIPTION**

The Sherrill-Lubinski Graphical Modeling System, SL-GMS, is ideal for developers who want to design their own screen displays or custom graphical interfaces. SL-GMS implementation is simple, direct and uniquely suited to a wide variety of applications. These can range from basic screens and man-machine interfaces, command/control systems with complete graphics management, to fully articulated visualisations in either real world process control or simulation. It is particularly valuable for dynamic applications that require screens of graphical objects to be automatically animated in response to real-time changes in external variables. It also permits database variables to be changed from the screen to control applications.

™ SL-GMS is a TradeMark of Sherrill-Lubinski



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Swanson Analysis Systems Inc.

ANSYS™

Available for:

VMS UIS

#### PRODUCT DESCRIPTION

ANSYS is a finite element computer program for engineering analysis. It is used in a wide range of disciplines for solutions to mechanical, thermal and electronic problems. The ANSYS element library includes more than 70 distinct elements. Analysis types included are static, dynamic, and linear and non-linear transient. ANSYS also allows modeling non-linearities such as temperature dependency, plasticity and strain hardening. Database sorts and selects can be applied in post-processing. ANSYS also has links to CAD systems.

™ ANSYS is a TradeMark of Swanson Analysis Systems Inc.

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Template Graphics Software, Inc.

TEMPLATE®

Available for:

VMS UIS  
Ultrix RISC  
Ultrix VAX

#### PRODUCT DESCRIPTION

TEMPLATE is an integrated set of graphics tools designed for 3D mechanical CAD, structural analysis, finite element analysis, and other scientific and engineering applications. It is a complete graphics system that includes modeling, multiple coordinate systems, perspective and orthographic viewing, and hierarchical display list support. TEMPLATE is device intelligent and computer independent. Device intelligence combines device independence, graphics hardware functionality, and software simulation for functions that are not supported by certain types of graphics hardware. TEMPLATE features a mnemonic user interface that reduces training time and simplifies recall of more than 250 user-callable subroutines.

© TEMPLATE is a Registered TradeMark of Template Graphics Software, Inc.

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Unipress Software, Inc.

MasterPlan™

Available for:

VMS UIS  
Ultrix VAX

#### PRODUCT DESCRIPTION

MasterPlan Version 1.1 is an interactive project management system. It uses the Critical Path Method to track tasks according to the time and resources they require. Projects can be viewed from four different screen types. The Activity Screen is a Gantt chart showing the sequencing and dates of activities. It also highlights the Critical Path. The Resource screen lists all the resources used by the project and displays associated cost data. The Calendar screen allows work-dates to be assigned for the project. The Network screen is a Pert Chart of the project displaying the activities. The screen optionally can cross-display information.

™ MasterPlan is a TradeMark of Unipress Software, Inc.

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V.I. Corporation

DV-DRAW™

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Available for:

VMS UIS  
VMS DECwindows  
Ulrix DECwindows

**PRODUCT DESCRIPTION**

DV-DRAW is a menu-driven drawing editor for analyzing and monitoring dynamic data. DV-DRAW enables users to create, without programming, 2D static or dynamic drawings such as as schematics, control systems, and instrument panels. DV-DRAW provides graphs, dials, meters, surface plots, and strip charts that can be combined with 2D drawings.

™ DV-DRAW is a TradeMark of V.I. Corporation

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V.I. Corporation

DV-TOOLS™

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Available for:

VMS UIS  
VMS DECwindows  
Ulrix DECwindows

**PRODUCT DESCRIPTION**

DV-TOOLS provides interactive computer graphics that enable users to depict, analyze, and regulate real-time industrial and scientific applications. No special training is required. Using menu-driven graphics and a library of subroutines, users create a detailed simulation of a critical process, set threshold values, synchronize dynamic components, initiate control sequences, and effect corrective actions, all from a single computer display.

™ DV-TOOLS is a TradeMark of V.I. Corporation

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V.I. Corporation

GECK™

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Available for:

VMS UIS  
VMS DECwindows  
Ulrix DECwindows

**PRODUCT DESCRIPTION**

The Graphical Editor Construction Kit (DECK) gives access to additional subroutines that allows DV-Tools users to produce DV-Draw like functionality in their end application, i.e. to build tailored editors for the creation and manipulation of graphical objects.

™ GECK is a TradeMark of V.I. Corporation



## Manufacturing (CIM)

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**Denniston & Denniston, Inc.**

**STARNET ®**

*Available for:*

**VMS UIS**

### PRODUCT DESCRIPTION

STARNET is designed to integrate PCLs, robots machines tools, and test instruments, electronic board assembly equipment, process control systems, and PC's in discrete and process manufacturing operations. With STARNET, equipment from different vendors can be monitored and controlled to work together in real-time, can share information, and can communicate production data between computer systems.

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**EXAPT NC Systemtechnik GmbH**

**EXAPT NC Software ™**

*Available for:*

**VMS UIS**

**VMS DECwindows**

### PRODUCT DESCRIPTION

The range of EXAPT CAD/CAM system offer ranges from the computer-assisted preparation of drawings to work-plan preparation, graphic-interactive NC programming with automatic processing of technology and linking options, and further to CAD systems for sheet metal machining, programming of multi-coordinate measuring devices, and the DNC systems with functions of data distribution, data feedback and consideration of order-related data including management of data on manufacturing facilities (tools, clamping devices, measuring and testing equipment). The A/M system modules can be economically used either separately or in integrated mode. A number of innovations characterize the systems offered; far-reaching extensions of geometry and technology in all areas.

™ EXAPT NC Software is a TradeMark of EXAPT NC Systemtechnik GmbH

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**Heuristics, Inc.**

**ONSPEC ®**

*Available for:*

**VMS UIS**

**VMS DECwindows**

### PRODUCT DESCRIPTION

ONSPEC software is designed for real-time factory data collection through I/O interfaces and for supervisory control of PLCs and I/O devices. The market for ONSPEC includes all industries that require control. For example, the chemical, food and beverage, pulp and paper, automotive, and other batch/discrete manufacturers - any industry where there is a conversion of material or energy. ONSPEC SQC/SPC provides control charts, histograms, real-time SPC alarms, and SQC tools for quality variables retrieved online or offline. ONSPEC control options include control blocks for PID, Ladder Logic, batch toolkit for sequential control, and ONSPEC ST for online, real-time, closed loop self-tuning of PID controllers, and supervisory control algorithms.

© ONSPEC is a Registered TradeMark of Heuristics, Inc.



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**Palette Systems Inc**

**PALETTE™**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

PALETTE provides graphics and hypertext software for use in integrated manufacturing and design applications such as paperless factory; process planning; test and inspection; and plant design and layout. PALETTE provides both complete off-the-shelf solutions, and integration tools that allow it to be built into higher-level technical applications. PALETTE is used by Government, Aerospace, Electronic and other Defense Industries, Manufacturers, Consulting Engineers, Utilities, Resource Companies and Universities. PALETTE's origins were as a CAD system, and in this field, PALETTE excels in applications requiring high-productivity general-purpose drafting (especially where large complex drawings are involved).

™ PALETTE is a TradeMark of Palette Systems Inc

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**Setpoint, Inc.**

**SETCIM®**

*Available for:*

**VMS UIS**

**PRODUCT DESCRIPTION**

SETCIM is supervisory process/cell control software with a high-speed, event-driven, real-time database that acquires and stores information from plant floor controllers and on-line devices. Typical uses include packaging, converting, and material handling applications for process manufacturers and high-speed, and high-volume applications for discrete manufacturers. SETCIM is designed to integrate PLCs with host-based plant management systems. As each PLC gathers data from the shop floor, it is instantly relayed to the SETCIM database and presented to the operator thus providing real-time control and a historical log of the manufacturing process.

® SETCIM is a Registered TradeMark of Setpoint, Inc.

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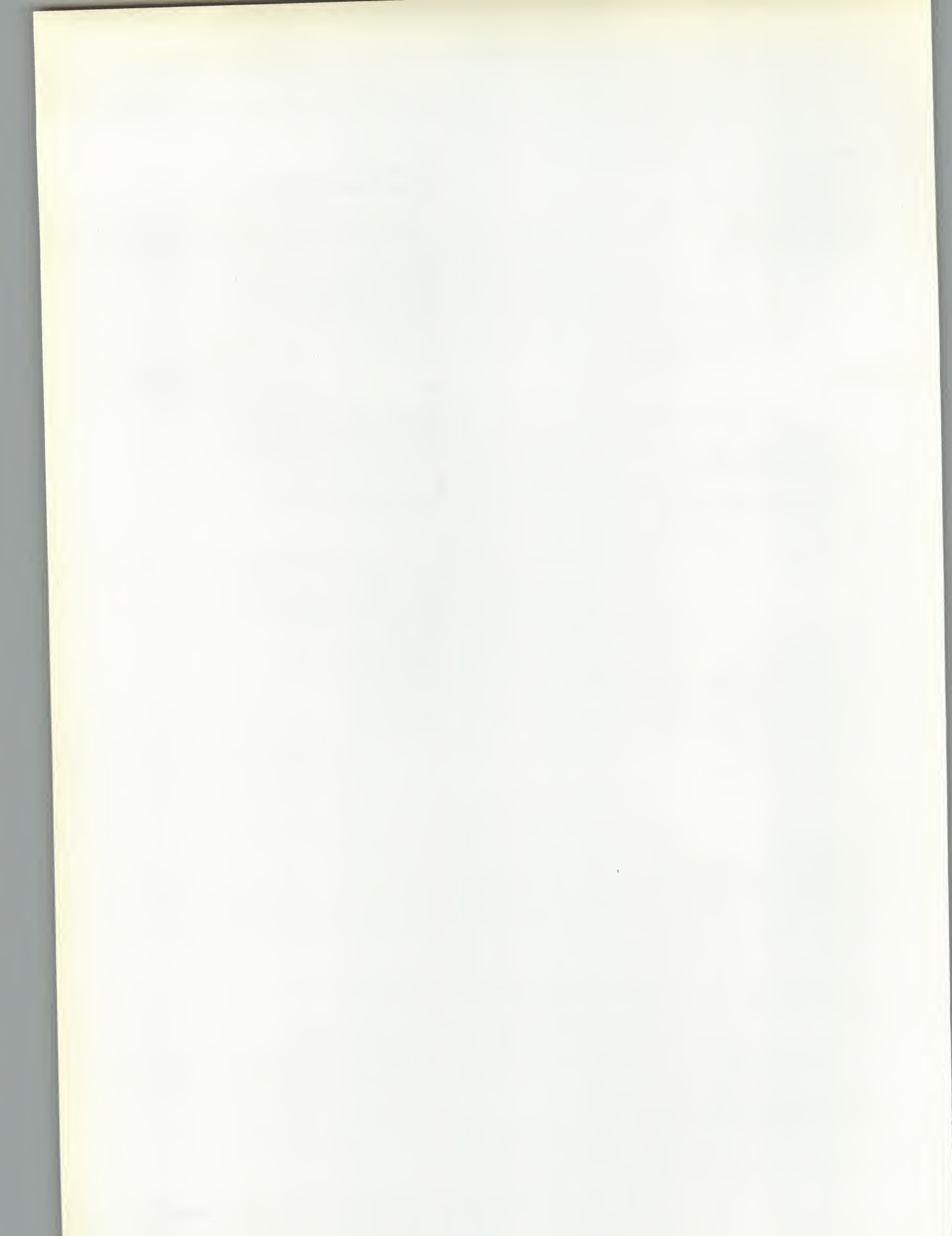
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**APPENDIX A**  
**CATALOG UPDATE NOTIFICATION**



# THE HISTORY OF

THE CITY OF BOSTON

FROM 1630 TO 1800

## APPENDIX B

### CATALOG ENTRY APPLICATION

Dear Application Developer,

If you would like your application(s) to appear in the next edition of the *European Workstation Application Catalog*, please fill in this questionnaire.

It would help us greatly if you could return one copy of the completed questionnaire per application.

Company Name:

Application Name:

Is it available now? If no, when will it become available:

On which DIGITAL workstation environments will the application(s) run under? (Please tick)

VAXstation		VMS VWS	VMS DW	VMS VT	Ulrix DW	Ulrix VT
VAXstation 2000	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
VAXstation 3100	<input type="radio"/>					
VAXstation 3200	<input type="radio"/>					
VAXstation 3250	<input type="radio"/>					
VAXstation 3500	<input type="radio"/>					
VAXstation 8000	<input type="radio"/>					

DECstation		Ulrix/RISC DW	Ulrix/RISC VT
DECstation 3100	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

(DW stands for DECwindows)

Other:

## Country Contacts

In which of the following market segments would you place your product? (Please tick)

Science/Research

☐

Finance

☐

Office

☐

Software Development - CASE (Computer Aided Software Engineering)

☐

Software Development - AI (Artificial Intelligence)

☐

Software Development - Software tools

☐

Engineering - ECAD (Electronic Computer aided design)

☐

Engineering - MCAD (Mechanical Computer aided design)

☐

Engineering - AEC (Architectural Electronic CAD)

☐

Engineering - Mapping

☐

Engineering - Earth Resources

☐

Engineering - General Engineering

☐

Manufacturing (CIM) (Computer Integrated Manufacture)

☐

Please give a short (10 line) description of the product.

Please indicate the trademark formats :

a) <sup>TM</sup> b) <sup>®</sup> c) other:

Please indicate the system requirements - ie if the application will only run on a specific workstation or has any particular software requirements - how much disk space is needed etc.

Please list the countries in which the application is available and supply addresses, phone numbers and contact names for prospective buyers, for each country.



1-May-1989

**READER'S  
COMMENTS**

**Note:** This form is for document comments only.  
DIGITAL will use comments submitted on this form at the company's  
discretion.

Did you find this catalogue understandable, usable and well organised? Please make suggestions for improvement.

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Did you find errors in this catalogue. If so, please specify the error and the page number.

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Name:

Date:

Organisation:

Address:

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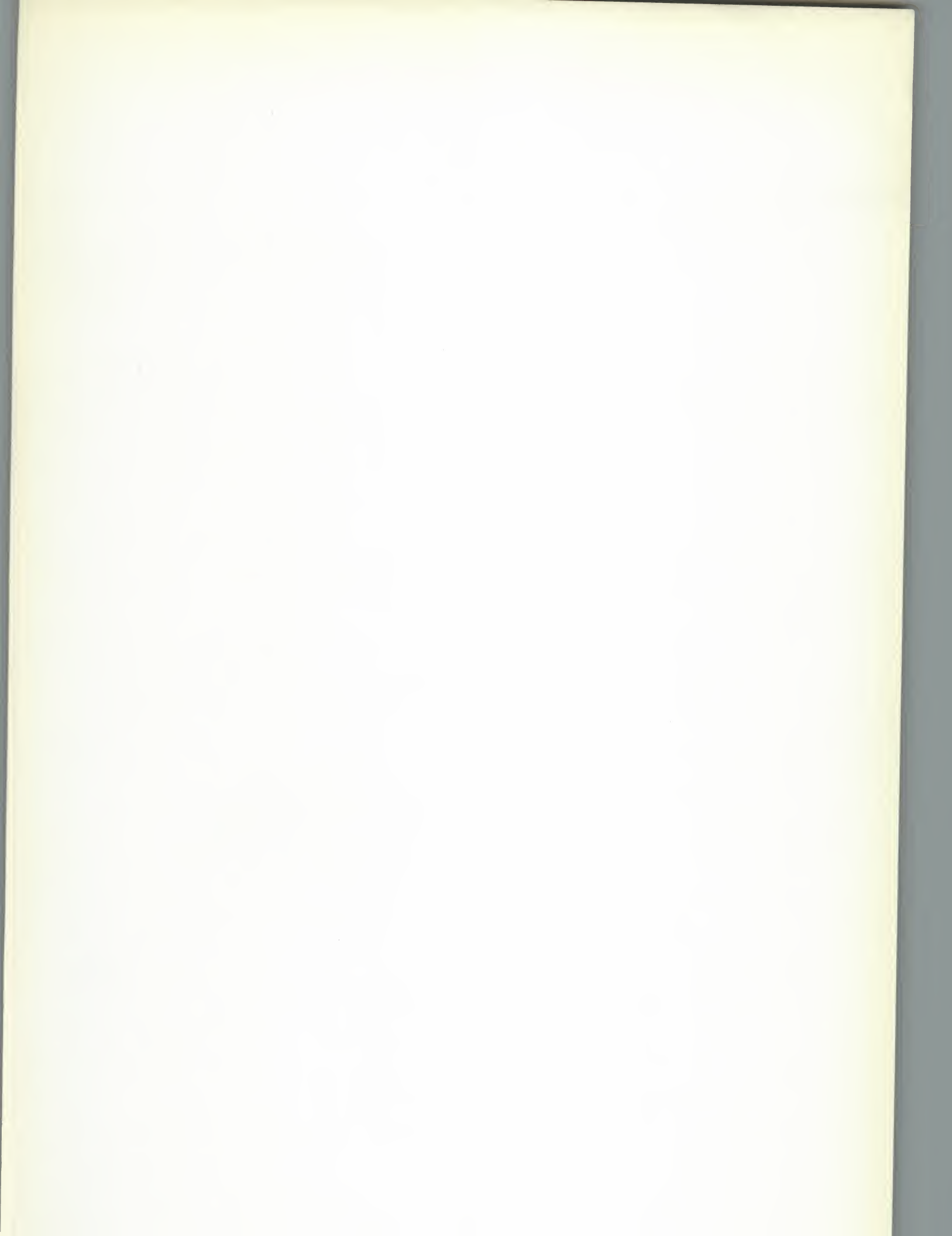
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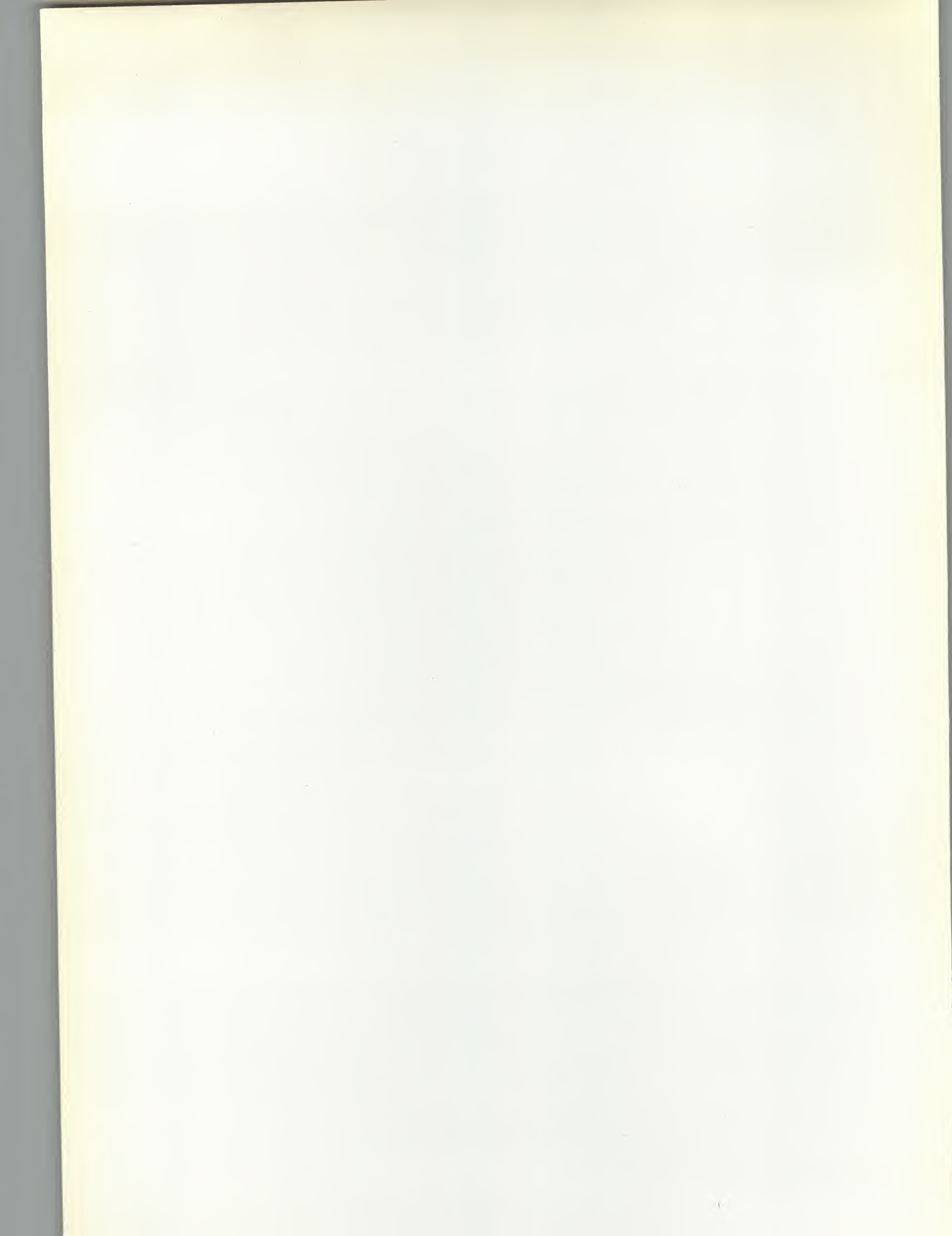
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